

## **Chrysanthemum Named 'Sunny Elite Reagan'**

### **RELATED CULTIVARS**

'Sunny Elite Reagan' is related to 'White Elite Reagan' (#.....) and the co-pending application of 'Cream Elite Reagan'(#.....). 'Sunny Elite Reagan' and 'Cream Elite Reagan' are both natural mutants of 'White Elite reagan'

### **BACKGROUND OF THE INVENTION**

'Sunny Elite Reagan' is a product of a breeding and selection program which had the objective of finding color mutants of 'White Elite Reagan'. The new plant of the present invention comprises a new and distinct cultivar of chrysanthemum plant that is a natural occurring sport of a parent chrysanthemum named 'White Elite Reagan' ( # .....). A comparison with Parent chrysanthemum 'White Elite Reagan' is also made in this application. The new cultivar was discovered as a whole plant mutation in April 1999 by Rob Noodelijk in a controlled environment (greenhouse) in Rijsenhout Holland. The first act of asexual reproduction of 'Sunny Elite Reagan' was accomplished when vegetative cuttings were taken from the initial selection in June 1999 in Rijsenhout Holland.

### **SUMMARY OF THE INVENTION**

The present invention is a new and distinct variety of chrysanthemum bearing medium sized blooms with yellow ray-florets and yellow-green disc florets.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

The present invention of a new and distinct variety of chrysanthemum is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

Fig. 1 shows a plant of the cultivar in full bloom.

Fig. 2 shows the various stages of bloom of the new cultivar.

Fig.3 shows the foliage of the new cultivar.

### **DESCRIPTION OF THE INVENTION**

This new variety of chrysanthemum is of the botanical classification dendranthema grandiflora. The observations and measurements were gathered from plants grown in April / May in a greenhouse in Rijsenhout Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18°C and 25°C and at night 20°C. After a long day period of 14 days the photo-periodic response time in this crop was 50 days. After the long day period to flowering growth retardants were applied 2 to 3 times in an average dose of 2.5 gram / liter water. No tests were done on disease or insect resistance or susceptibility. This new variety produces medium sized blooms with yellow ray-florets and yellow-green disc-florets blooming on the plant for 5 weeks. This new variety of chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Sunny Elite Reagan' can be planted without assimilation lightning (high pressure sodium lamps) between week 50 and week 40 of the next year under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Sunny Elite Reagan' is 'White Elite Reagan' and 'Sunny Reagan (USPP 9928). When 'White Elite Reagan' and 'Sunny Elite Reagan' are being compared the following differences and similarities are noticed: The difference of 'White Elite Reagan' and 'Sunny Elite Reagan' is the flower color for which characteristics 'Sunny Elite Reagan' has been selected out of 'White Elite Reagan'. All other characteristics of 'White Elite Reagan' and 'Sunny Elite Reagan' are similar.

The differences of 'Sunny Elite Reagan' and 'Sunny Reagan' are: (1) Disc flower color and size. The flower disc of 'Sunny Elite Reagan' is more green and smaller. (2) Growth rate. The growth of 'Sunny Elite Reagan' is more vigorous. (3) Response time. The response time of 'Sunny Elite Reagan' is 3 till 4 days shorter.

The following is a description of the plant and characteristics that distinguish 'Sunny Elite Reagan' as a new and distinct variety.

The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society color chart, edition 1995.

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Table 1: Botanical Description of  
CULTIVAR ‘Sunny Elite Reagan’

Bud

Size	Medium, cross-section +/- 1.0 cm height +/- 0.8 cm
Outside Color	Yellow 9 A
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 138 B

Bloom

Type	Single
Height	Flat
Size	Medium
Fully Expanded	6.0 – 7.0 cm
Number of blooms per single stem	Average of 11 – 12
Seeds	Not produced
Performance ( blooming period)	26 – 28 days
Fragrance	Typical chrysanthemum

Color

Center of the flower (disc-florets)	Immature yellow-green 144 B, mature yellow-green 144 B to yellow 3 A along the border
Color of upper surface of the majority of the ray-florets	Yellow 5 A
Color of the lower surface of the majority of the ray-florets	Yellow 5 C
Tonality from Distance	A spray mum with yellow flowers and a

yellow-green disc

Discoloration to color

Yellow 4 A

Ray florets

Texture

Upper and under side smooth

Number

20 – 22

Cross-section

Flat, sometimes convex

Longitudinal axis of majority

Straight, sometimes reflexing

Length of corolla tube

Very short to short

Ray-floret length

3.5 cm

Ray-floret width

1.2 cm

Ratio length / width

Low to medium

Shape of tip

Pointed

Disc florets

Disc diameter

Medium to small, 1.0 – 1.2 cm

Distribution of disc florets

Numerous, clearly visible at all stages of flowering

Type

Tubular

Color

Yellow-green 144 A

Receptacle shape

Conical raised

Reproductive Organs

Stamen (present in disc florets only)

Yellow-green, thin 3 mm in length

Stamen color

Yellow-green 150 B

Pollen

Appears at a very late stage of flowering,

Pollen color

Close to yellow 12 A

Styles (present in both ray and disc florets)

Green, thin

Style color

Green 143 B

Style Length

4 mm

Stigmas	Yellow-green
Stigma Width	1 mm
Ovaries	Enclosed in calyx

#### Plant

Form	A spray mum meant for erect culture
Growth habit	Upright
Growth rate	Vigorous
Height	105 – 130 cm
internodes	3- 3.5 cm
Spray formation	Corymbiform (funnel-shaped with a little round to flat umbel on top)
Peduncle length	Near the top 14 cm, near the middle 21 cm, near the bottom 26 cm
Peduncle color	Green 138 B
Peduncle, attachment	Good, not brittle
Peduncle, angle with stem	Small, 30 °
Stem Color	Green 137 A
Stem Strength	Medium
Stem Brittleness	Absent
Stem Anthocyanin Coloration	Absent
Flowering Response(photo-periodic controlled crop, not natural season)	50 days

#### Foliage

Color	Upper side Under side
Size	Medium; length +/- 12 cm, width +/- 8 cm
Quantity (number per single stem)	22 – 28
Shape	Ovate
Texture upper side	Scabrous

Texture under side	Slightly pubescent
Venation arrangement	Pinnate
Shape of the margin	Lobed
Shape of Base of Sinus Between Lateral Lobes	Round
Margin of Sinus Between Lateral Lobes	Diverging
Shape of Base	Truncate, sometimes asymmetrical
Apex	Mucronate

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Table 2: Differences with the comparison Varieties

	'Sunny Elite Reagan'	'White Elite Reagan'	'Sunny Reagan'
Color of the ray-florets	Yellow 5 A	White 155 D	Yellow 5 A
Flower disc size	1.0 – 1.2 cm	1.0 – 1.2 cm	1.5 cm
Flower disc color immature	Yellow-green 144 A	Yellow-green 144 A	Yellow-green 151 C
Growth rate	vigorous	vigorous	Strong
Peduncle, angle with stem	30°	30°	30 - 35°
Response time in days	50	49	53 –54

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